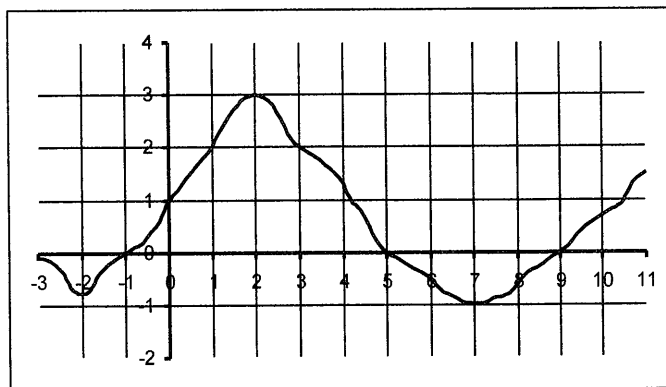


READING GRAPHS OF FUNCTIONS

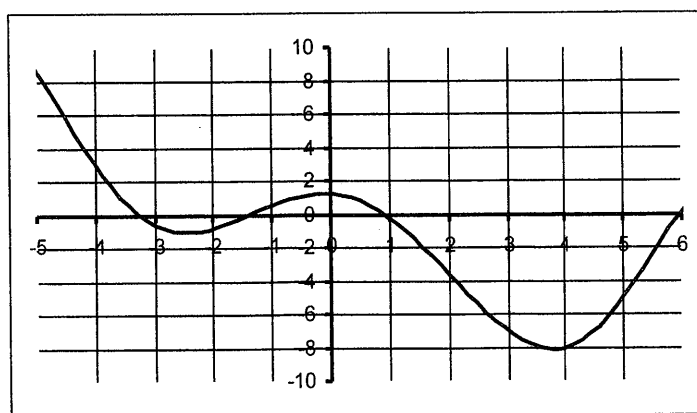
1. Use the graph below to answer the following:

- A. Find $f(0)$.
- B. Find $f(7)$.
- C. Find $f(2)$.
- D. Is $f(6)$ positive or negative?
- E. Is $f(-1/2)$ positive or negative?
- F. Is $f(1) > f(6)$?
- G. For what values of x is $f(x) = 0$?
- H. For what values of x is $f(x) > 0$?



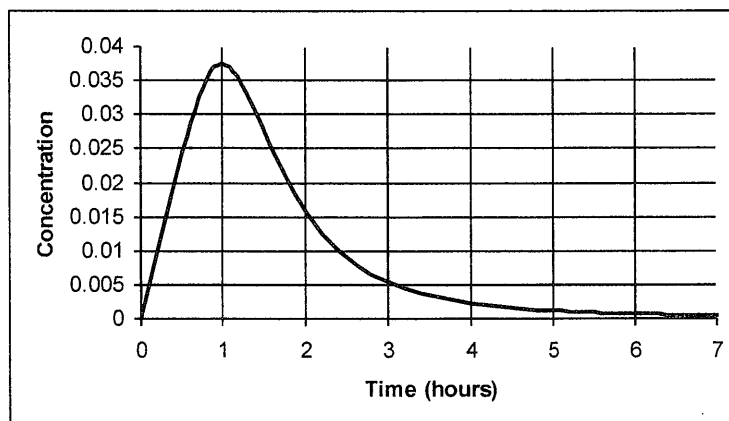
2. Use the graph below to answer the following:

- A. What is $f(2)$?
- B. Find x so that $f(x) = 3$.
- C. Find the zeros of $f(x)$.
- D. What is $f(f(2))$?
- E. On what intervals is $f(x)$ increasing?
- F. For what value, if any, is $f(x) = x$?
- G. On what intervals is the rate of increase of $f(x)$ actually decreasing?



3. When a drug is injected into a person's muscle tissue, the concentration of the drug in the blood is a function of the time elapsed since the injection. Use the graph below to answer the following:
($t = 0$ corresponds to the time of injection)

- A. What is the concentration of the drug one hour after the injection?
- B. Find $C(3)$ and give an interpretation.
- C. Over what interval is the concentration greater than 0.01?



4. The graph below illustrates the temperature on a particular day as a function of time since midnight.

- A. What was the temperature at 3:00 a.m.?
- B. When was the temperature 5 degrees?
- C. When was the temperature below freezing? (less than 0 degrees)
- D. When was the temperature increasing?

